

A Sensor Management Tool for Use with NASA World Wind, Phase I

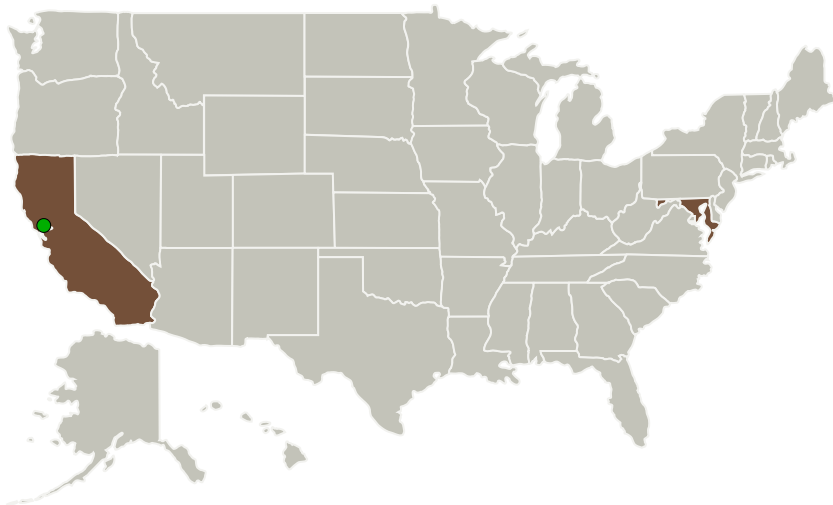


Completed Technology Project (2010 - 2010)

Project Introduction

Information about the world and its local environments is becoming increasingly available due to the development and deployment of sensors. Deployed sensors include those on satellites, from NASA's 'Earth Observing System' for research into the Earth's biosphere, land, atmosphere and oceans to NOAA's weather satellites. However, Sensor Webs are by no means restricted to large systems involving satellites. For example, components of ocean observing systems include buoys, especially for coastal region monitoring. The coupling of sensor data and Internet connectivity has resulted in huge volume of sensor data that would be of interest to researchers. A key question is 'how can individual researchers easily find, access and manage sensor data streams of interest to them?' We propose a Sensor Management Tool (SMT) that supports the individual researcher in finding, accessing and managing sensor data. Intelligent Automation Inc (IAI) and Southeastern Research Universities Association (SURA) are collaborating on SMT: it will be open source and it will utilize the NASA World Wind Java SDK for visualization. Our proposed Sensor Management Tool (SMT) is standards-related and incorporates Community Discovery aspect.

Primary U.S. Work Locations and Key Partners



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Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Project Transitions	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	3
Target Destinations	3

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Organizations Performing Work	Role	Type	Location
Intelligent Automation, Inc.	Lead Organization	Industry	Rockville, Maryland
● Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California

Primary U.S. Work Locations	
California	Maryland

Project Transitions

▶ **January 2010:** Project Start

✓ **July 2010:** Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/140053>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Intelligent Automation, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

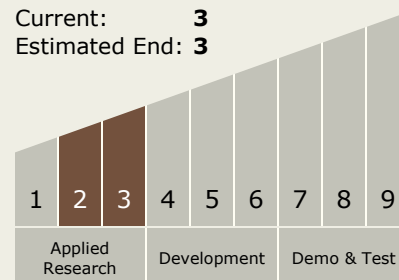
Carlos Torrez

Principal Investigator:

Margaret Lyell

Technology Maturity (TRL)

Start: 2
Current: 3
Estimated End: 3



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Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System